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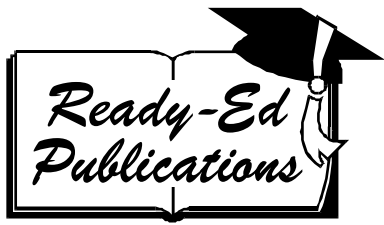
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**Book 2 - Grades 2/3**  
**Measurement in  
Mathematics  
Series**

**Practical measuring activities for the  
classroom.**

SAMPLE

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# Measurement: Grades 2 - 3

These photocopy masters in the measurement stand of mathematics have been devised to:

- provide teachers with activities to reinforce teaching objectives related to required aspects of numeracy strategy documents;
- give teachers alternative approaches so students can practice the necessary skills;
- be time saving (teachers don't have to prepare worksheets);
- provide enrichment activities;
- provide starting points for teachers;
- be easy to use.

As such the book covers concepts directed towards meeting Standards and curriculum references for:

- \* *Making sense of number problems; Problems involving measures (length; mass; volume; time; capacity; area)*
- \* *Shape and space. Properties of 2D shapes; Properties of 3D shapes.*

Each page of activities contains a challenge section to extend the students' learning.

For children to learn effectively they need to be taught using a problem solving approach involving only one new concept being introduced at a time, with plenty of time to practice new skills. Opportunities should be given for children to work together in groups or pairs and to discover why they need to learn mathematics and how it relates to everyday life.

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## Materials required to complete the activities in this book.

- Colored rods
- Drinking straws
- Ice cream sticks
- Ruler
- Base ten blocks
- Margarine tubs
- Jug
- Can
- Saucepan
- Kettle
- Orange rods
- Reading book
- Trundle wheel
- 1 minute timer
- Skipping rope
- Tennis ball
- Stopwatch
- Counters
- dimes (play money)
- Pattern blocks
- 1 cm grid paper
- Leaves
- Apple
- Small stones
- Balance scales
- 1 cm cubes
- 2 cm cubes
- Marbles
- Potato
- Bathroom scales
- 4 different sized and/or shaped containers
- Sand
- Cup
- Soda bottle
- Juice bottle
- 1 liter container
- ½ liter container
- Funnel
- Drinking glass
- 6 similar sized containers (containing stones, sugar, flour, kidney beans, pasta and peas)
- Paper clips
- Deep tray to catch overflowing water
- Measuring tape
- Yard or meter ruler
- Large pieces of paper
- Paints
- Pieces of card, about 10 cm x 5 cm
- Calendar
- 3 different sized small boxes
- Sticky tape
- Scissors
- Nuts
- Measuring cylinder/jug
- Hoop or a wire coat-hanger

Name .....

# Measuring My Friend

**What you need: measuring tape**

My friend's name is .....

Measure each of the following (in inches or centimeters):

- 1. Height .....
- 2. Distance around head .....
- 3. Length of arm  
(from underneath the arm) .....
- 4. Length of forearm .....
- 5. Distance around wrist .....
- 6. Distance around waist .....
- 7. Length of calf  
(from back of knee to heel) .....
- 8. Distance around ankle .....



Compare your height with your friend's height.

Who is the tallest? .....

Who is the shortest? .....

**Challenge:**  
Find someone else in the class who is the same height as you.

Name .....

# Measuring With Arbitrary Units

**What you need:** a selection of objects that could be used for measuring (e.g. colored rods, drinking straws, ice cream sticks)

Choose the best object to measure:

1. The length of your desk.

What did you use? .....

What was the length? .....

2. The length of the leg on your desk.

What did you use? .....

What was the length? .....

3. The length of your writing book.

What did you use? .....

What was the length? .....



Compare your answers with a friend's. Which measures did you agree on?

.....  
.....

How accurate were your methods of measurement? .....

.....

What else could you use to measure with? .....

.....  
.....